

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

| | | | |
|--|--|--|---|
| (51) International patent Classification 4: C07K 13/00, A61L 27/00, C12N 15/00 A61K 35/32, C12P 21/02 | | A3 | (11) International Publication Number: WO 89/09787 (43) International Publication Date: 19 October 1989 (19.10.89) |
| (21) International Application Number: PCT/US89/01453 (22) International Filing Date: 7 April 1989 (07.04.89) (30) Priority data: 179,406 8 April 1988 (08.04.88) US 232,630 15 August 1988 (15.08.88) US 315,342 23 February 1989 (23.02.89) US (60) Parent Applications or Grants (63) Related by Continuation US 179,406 (CIP) Filed on 8 April 1988 (08.04.88) US 232,630 (CIP) Filed on 15 August 1988 (15.08.88) US 315,342 (CIP) Filed on 23 February 1989 (23.02.89) (71) Applicant (for all designated States except US): CREATIVE BIOMOLECULES, INC. [US/US]; 35 South Street, Hopkinton, MA 01748 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): KUBERASAMPATH, Thangavel [IN/US]; 6 Spring Street, Medway, MA 02053 (US). OPPERMANN, Hermann [US/US]; 25 Summer Hill Road, Medway, MA 02053 (US). RUEGER, David, C. [US/US]; | | (150) Edgemere Road, Apt. 4, West Roxbury, MA 02132 (US). OZKAYNAK, Engin [TR/US]; 44 Purdue Drive, Milford, MA 01757 (US). (74) Agent: PITCHER, Edmund, R.; Lahive & Cockfield, 60 State Street, Boston, MA 02109 (US). (81) Designated States: AT (European patent), AU, BB, BE (European patent), BF (OAPI patent), BG, BJ (OAPI patent), BR, CF (OAPI patent), CG (OAPI patent), CH (European patent), CM (OAPI patent), DE (European patent), DK, FI, FR (European patent), GA (OAPI patent), GB (European patent), HU, IT (European patent), JP, KP, KR, LK, LU (European patent), MC, MG, ML (OAPI patent), MR (OAPI patent), MW, NL (European patent), NO, RO, SD, SE (European patent), SN (OAPI patent), SU, TD (OAPI patent), TG (OAPI patent), US. Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 8 February 1990 (08.02.90) | |
| (54) Title: OSTEOGENIC DEVICES | | | |
| (57) Abstract <p>Disclosed are 1) osteogenic devices comprising a matrix containing osteogenic protein and methods of inducing endochondral bone growth in mammals using the devices; 2) amino acid sequence data, amino acid composition, solubility properties, structural features, homologies and various other data characterizing osteogenic proteins, and 3) methods of producing osteogenic proteins using recombinant DNA technology.</p> | | | |

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

| | | | | | |
|----|------------------------------|----|--|----|--------------------------|
| AT | Austria | ES | Spain | MG | Madagascar |
| AU | Australia | FI | Finland | ML | Mali |
| BB | Barbados | FR | France | MR | Mauritania |
| BE | Belgium | GA | Gabon | MW | Malawi |
| BF | Burkina Faso | GB | United Kingdom | NL | Netherlands |
| BG | Bulgaria | HU | Hungary | NO | Norway |
| BJ | Benin | IT | Italy | RO | Romania |
| BR | Brazil | JP | Japan | SD | Sudan |
| CA | Canada | KP | Democratic People's Republic of Korea | SE | Sweden |
| CF | Central African Republic | KR | Republic of Korea | SN | Senegal |
| CG | Congo | LI | Liechtenstein | SU | Soviet Union |
| CH | Switzerland | LK | Sri Lanka | TD | Chad |
| CM | Cameroon | LJ | Luxembourg | TG | Togo |
| DE | Germany, Federal Republic of | MC | Monaco | US | United States of America |
| DK | Denmark | | | | |